

UNION CARBIDE'S NEW SILICONE LABORATORY recently was completed, joining the other facilities at the Tarrytown, New York, Technical Center. The new lab will enable Union Carbide to centralize and broaden its silicones research, which was formerly conducted in Tonawanda.

Silicones Research And Development Lab Opened For Union Carbide At Tarrytown

Union Carbide's new silicones research and development laboratory at its Technical Center near Tarrytown, New York, has gone into service. The laboratory represents a multi-million-dollar investment and forms the basis for a strong and expanding silicones marketing program. Research will be directed at improving silicone products and developing even more versatile forms of these useful organometallic chemicals. In addition to serving as a center for silicones research, the new laboratory is the headquarters for the silicones technical service group.

The new laboratory is a four-story building with an area of 102,000 square feet. It can house 225 persons in 113 laboratory modules and 92 offices. It enables Union Carbide to centralize and broaden its silicones research, which was formerly conducted in Tonawanda, New York.

Silicones come in various forms: oils, elastomers, resins, and chemicals with unique properties. For instance, they resist high and low temperatures, are water repellent and retain good physical and dielectric properties under severe operating conditions. They are made principally from silicon metal and organic chemical raw materials.

Union Carbide scientists have already made or evaluated over 4,000 silicone materials, several hundred of which have become standard products.

Silicones are used by a wide variety of companies, large and small — makers of suntan lotions, medical supplies, masonry water repellents, aircraft, missiles and satellites, automobiles and tires, electrical motors, boats, adhesives and paint, leather and textiles. Silicone organic copolymers are important stabilizers in the manufacture of both rigid and flexible urethane foam. Rigid foam, widely used for insulation in buildings, refrigerators, trucks and railroad cars, also has wide application in special packaging, as a flotation material in submarines and lifeboats, and as a building material. Flexible foam is used in cushion-

ing for furniture, bedding, automobiles, and for such varied products as insulation, padding, and binding in the clothing industry. At Tarrytown, research and development will continue in all areas of silicone chemistry.

Already established at the Tarrytown site are the Union Carbide Research Institute, the chemicals and plastics laboratory, and a development laboratory of the Consumer Products Division. The silicones lab, as well as the existing chemicals and plastics laboratory, are under the directorship of Thomas H. Welch.

ISA Plans Tour Of TVA Facility

The Oak Ridge Section of the Instrument Society of America is sponsoring a field trip to the TVA Engineering Laboratory at Norris, tonight, November 29, at 7 p.m.

On display will be scale models of Tellico Dam, Hales Bar Dam, and Bear Creek Dam. Other displays will include remote controlled scale model barge for use with the dams, Rainstream Telemetry System, Analog Computer and other associated equipment.

ISA wives are invited on tonight's tour.

Fraenkel Is Guest At Physics Seminar

Z. Fraenkel, Weizmann Institute of Science, and Argonne National Laboratory, will lead this week's Physics Division seminar. His subject will be "Neutrons Emitted in the High Energy Fission of ^{238}U and ^{209}Bi ."

The seminar is set for Friday, December 1, at 3:15 p.m. in the Central Auditorium of ORNL's 4500 building.

SAFETY SCOREBOARD

**The Y-12 Plant Has
Operated
59 Days Or
1,764,000 Man-Hours
(Unofficial Estimate)
Through November 25
Without a Disabling
Injury
Safety At Home
At Work, At Play**



TWO CLOWNS FROM THE DELMONTE Chimp Act go through their routines. These and other "educated" chimpanzees will entertain the Carbide kids at their big Christmas parties, Thursday, December 21. The parties are set at 9 and 11 a.m. . . . 1, 3 and 5 p.m.

Tickets Going Out For Kids' Parties

The Recreation Department began mailing tickets out this week for the Christmas parties set for

Carbide kids, Thursday, December 21. Moving at a brisk pace, was the last word.

The five big parties are set on December 21, at 9 and 11 a.m. . . . and 1, 3 and 5 p.m. at the Oak Ridge High School auditorium. There will be a trained chimpanzee act . . . the Delmonte Chimps, plus colored cartoons, carol singing, and the usual visit from Santa Claus who will leave favors for all the kids.

Adults and children both need tickets (free) . . . An application blank again appears in this issue of the Bulletin. Children and parents both need tickets, so make sure the proper amount desired is filled out.

Mail the applications back to Recreation (they must be in next week . . . as no more applications will be taken after December 15.) Employees may use the interplant mailing system for the applications.

Tickets will be mailed to your home address.

So, fill out the application on page four **completely** and mail to the Recreation Department, Building 9704-2.

Time's a-fleeing!

CPS—TEST DEADLINE

Friday, December 1, is the deadline for entries in the Certified Professional Secretaries' examinations to be held next year. Additional information may be obtained from Mabel Tyer.

SLANTED VIEW

People think of the inventor as a screwball, but no one ever asks the inventor what he thinks of other people. Charles Kettering.



THE ASSEMBLY DIVISION IN Y-12 took a prestige award in the recently completed United Fund Drive. The division was among the top 10 divisions in the area, pledging far and above their established goals. Milt Dickens, center, receives a commendatory plaque from Dr. C. E. Larson, president of the Nuclear Division. Others are, left to right, H. F. McDuffie, general chairman of the 1967 drive; J. A. Lane, United Fund coordinator for union members in the division; and Jack Case, deputy Y-12 superintendent.

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG Editor

Member Appalachian
Industrial
Editors'
Association

American Association Industrial Editors

OFFICE

Post Office Box Y
Oak Ridge, Tenn. 37830
Bldg. 9704-2 Room C-9
Telephone 3-7100

Ridge Chorus Will Perform Saturday

The Madrigal Singers will be one of the features of the Oak Ridge Chorus concert Saturday, December 2. These singers, a selected group of voices from the Chorus, are directed by Francis Parker. They will sing Mozart's "Ave Verum Corpus" and three Christmas carols: Healey Willan's "Hodie, Christus Natus Est," "A Song to the Sleeping Babe" (Pennsylvania Dutch) by Frederick Snell, and a Christmas carol from the island of Martinique entitled "In Bethlehem," by Leon M. Tellep.

The Madrigals rehearse once a week in an informal setting, usually at the home of the director. Members in the December concert are Frances Parker, Mary Finchum, Becky Ball, Rusty Stephens, Garreth Guest, Lynn McGill, Bob Parker, Jim Ball and Syd Ball.

The Chorus concert is under the auspices of the Oak Ridge Civic Music Association and will be conducted by Franklin Choset. Brooke Webber will be the accompanist, and assisting will be members of the Oak Ridge Symphony Orchestra. Concert time is 8:15 p.m. at the Oak Ridge High School Auditorium. Non-members of ORCMA may purchase tickets at the box office.

Schubert's **Mass In G** is the feature work of the Oak Ridge Chorus in its concert Saturday, December 2. The concert begins at 8:15 p.m. in the Oak Ridge High School Auditorium.

Also featured will be R. Vaughn Williams' **Flos Campi**.

Schubert's great Mass was written in 1815, and as in all of his music, the naturally flow of melody is without obstruction. To the listener the music sounds innocent and does not depend on sophistication and passion for effect. Throughout the Mass Schubert uses his melodic gift with richness, expressiveness and variety.

The Chorus and soloists will be accompanied by member from the Oak Ridge Symphony.

Smoking Habits Account For Many Home Fires

Each year there are over 550,000 home fires (more than 1,500 daily) — over 6,500 people killed in home fires (about six times more are hurt) — over \$300,000,000 in home property loss. Careless smokers cause almost 20 percent of these home fires. Make a "no smoking in bed" rule for every member of your household . . . also no smoking near flammable liquids. Check to make sure you have plenty of large, deep ashtrays.

The security spotlight is on you.

Y-12 Daughters Vie In Junior Miss Pageant Saturday Night In Oak Ridge

The Oak Ridge Junior Miss contest, sponsored by the Oak Ridge Jaycees and Jaycettes, will be staged Saturday, December 2, at 7:30 p.m. at Jefferson Junior High School.

Participating in the 21-girl competition are six Y-12ers' daughters, appearing below.

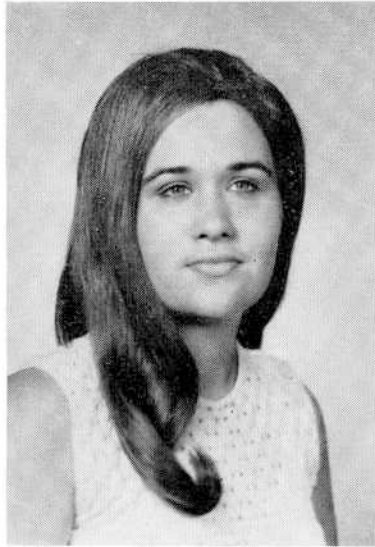
The pretty teens are judged on poise and personality, talent, scholarship and physical fitness.

The first award will be a \$150 scholarship, and a trophy. The first runner-up will also receive a trophy and a \$75 scholarship. The second runner-up will receive a \$25 scholarship. Miss Personality will take a trophy, and the top five girls will receive Junior Miss Charm bracelets.

Admission to Saturday's festivities is \$1.50 for adults, and \$1.00 for students.

Following is a thumb-nail sketch of the six daughters from Y-12 families competing in the race.

The pageant is co-sponsored by Radio Station WATO.



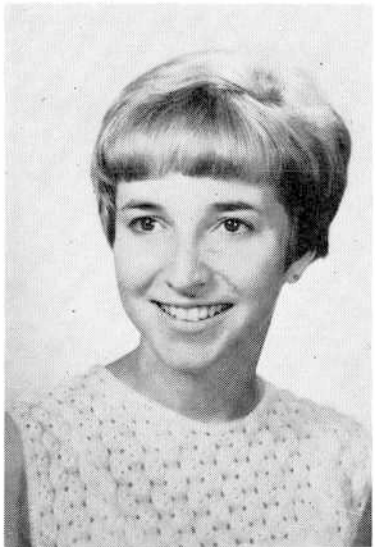
Mary Charles Pride

Mary Charles Pride, daughter of Mr. and Mrs. Charles Pride, 115 East Arrowwood Dr., Oak Ridge. One of Mary Pride's chief interests is folk-singing. She is a member of a group called the Existentialists.

For her talent she will sing "To Sir, With Love" assisted by the "Granny-Street Gang" a group she sings with occasionally.

Mary is one of ORHS's representatives on the Junior Red Cross, and last year represented her church, First Methodist, at the Senior Youth Assembly at Emory, Virginia.

Her father is in Y-12's Engineering Mechanics.



Freida Wanell Kalb

Freida Wanell Kalb, daughter of Mr. and Mrs. G. F. Kalb, Jr., 107 Monticello Road, Oak Ridge.

Freida's interests lie in music, and she has taken voice for three years. She is a soprano with the ORHS Madrigalians.

Freida will sing "The Sweetheart Tree" and "Love Makes the World Go Round." She arranged the numbers herself and will be accompanied by Linnette Legg, daughter of Emmett Legg, Laboratory Operations.

Freida's father is in Y-12's Civil and Architectural Engineering.



Teresa Ann Wyrick

Teresa Ann Wyrick, daughter of Mr. and Mrs. Herman F. Wyrick, 108 West Arrowwood Road, Oak Ridge.

Terry is active in many activities at school . . . a member of the Penguins, AFS, Junior Grey Ladies, and plays basketball at St. Mary's.

She is a part-time employee at Elm Grove Drug, and hopes to be a nurse.

Her favorite high school subjects are psychology and sociology.

For her talent, Terry will do the sleepwalking scene from **Macbeth**.

Terry's father is in Y-12's Area Five Maintenance.



Beverly Spangler

Beverly Spangler, daughter of Mr. and Mrs. D. D. Spangler, 114 East Magnolia Lane, Oak Ridge.

Beverly is president of the Penguin Club, is Chanticleer sweetheart, and placed third in national dance competition in New York for 1967-68. She has been on the student council in her ninth, 10th, 11th and 12th year in school, is a member of the senior steering committee, was a member of the Pep Club her last four years in



JOY NOE WAS FETED recently by fellow-workers with a bridal shower. Shown are part of her hostesses. They are Ann Matlock, Joy, Gladys Bayless and Brenda Roberts. Joy's friends presented her with some of her china. She was married Thanksgiving Day.

school. She is a member of the Dance Masters of America.

For her talent she will do a Charleston.

Her father is in Y-12's Maintenance Division.



Susie Webster

Susie Webster, daughter of the Julian W. Websters, 1000 West Outer Drive, Oak Ridge.

Susie's outside interests include the Modern Dance Club, Sub-Debs, the French Club, and the Knoxville Junior Skating Club.

For her talent she will do a singing, dancing routine.

Susie's father is an ORNL employee in Y-12.



Patty Johnson

Patty Johnson, daughter of Mr. and Mrs. Raymond E. Johnson, 106 Albany Road, Oak Ridge.

Patty is a senior at Oak Ridge High, where she is president of her homeroom class, a member of the Modern Dance Club and active in Glenwood Baptist Church. For her talent, Patty will do a

Joy Noe Honored By Bridal Shower

A surprise shower was given Joy Noe, as fellow employees in Biology Maintenance, Biology Utilities, Bio-Engineering and Engineering in 9208, presented her with a creamer and sugar to her china.

Joy was married on Thanksgiving Day at the Grace Baptist Church to David Castleberry.

Around 70 of Joy's friends enjoyed cake and coffee provided for the event.



The last month of the year makes its entrance, as many more Y-12ers move into veteran status. Congratulations.

20 YEARS

Earl C. Gross, Electrical Department, December 4.

15 YEARS

Edwin E. Nichols, Stores, Department, December 4.

10 YEARS

Jilson H. Fielden, Product Engineering, December 2.

Warren A. Niles, Facilities Engineering, December 2.

Lloyd S. Sheffield, Superintendents Division, December 2.

'King And I' Adds Two More Performances

The Oak Ridge Playhouse has added two more performances of its highly successful production "The King and I" for this coming weekend. Evening performances will be at 8:20 Friday, December 1, and Saturday, December 2. Ticket reservations may be made by calling the Box Office at 483-1224 daily.

"The King and I" has played to full houses for its previous 10 performances. It is not only one of the most colorful of Rodgers and Hammerstein's musicals, but its many tunes are among the most beautifully written by these two masters of musical theatre. The creation of the glittering costumes and headdresses for the Playhouse production proved to be one of the most ambitious projects ever undertaken, and the beauty of the final product has brought the highest praise.

modern dance to the theme from Exodus.

Her proud father is in Y-12's 9215 Rolling Mill.



GUARDSMEN WERE ACCUSING K. G. Edgemon with recently killing a mule on his deer hunt November 4 on the Cumberland Plateau. Edgemon records the above photograph . . . an eight-point buck, weighing 186 pounds. Doesn't look like a mule to us!

Poorly Vented Camper Heater May Bring Death To Unsuspecting Hunter

• When a family driving through the mountains stopped to admire the scenery, the mother found that her two young sons in the backseat were dead.

• Five men watching a brief television program in an auto repair shop were overtaken by death.

• Surprised by rain while he was preparing a cookout, a man carried his grill into a tool shed. His wife found him dead.

• On a cold winter morning, all four members of a family occupying three bedrooms were found dead.

• At Tellico recently, two hunters were found dead in a camper. Their heater was their doom.

A thousand or more fatalities like the above take place in the United States and Canada every year.

A worn-out muffler accounted for the deaths of the two young boys asleep on the back seat of the family car.

The five men died because a running auto filled the repair shop with deadly carbon monoxide. The amateur cook became victim to asphyxiation when he moved a charcoal grill into a closed area.

The Tellico tragedy (many Y-12ers were on the same open hunt) marked the sad opening of the first big hunt in that area. The camper heater was not at fault. Apparently, the camper was too well insulated . . . in other words, it was air-tight practically.

The burning heater filled the sleeping area with CO and that was that.

Most people believe that a fire in a closed space is dangerous because it exhausts the supply of oxygen, replacing it with carbon dioxide. However, a fire will flicker out at an oxygen concentration in which we can still breathe and function. A fire is dangerous not because it exhausts oxygen but because it emits carbon monoxide. CO has been called the perfect asphyxiant. It is odorless, colorless, and will cause drowsiness before it kills without warning.

During the heating season, and particularly during the hunting season when temporary heaters are used, particular care should be given with indoor heaters, cook stoves, or refrigerators.

All space heaters should be vented to the outside of the vehicle. Air for combustion shall be conducted through a duct from the outside to combustion chambers. Such appliances are usually equipped with a device designed to shut off the supply of gas to the main burner and to the pilot in the event the pilot flame is extinguished.

Shifters Enjoy Big Game Night Nov. 18

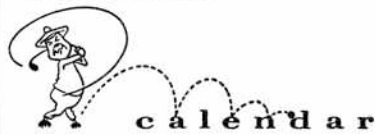
Game night spelled fun for the E, F, G, H and J Shift-folks that turned up at the Green Room, Saturday, November 18. Everyone was talking about the Big Orange victory over Ole Miss and the possibilities of being number one. There were 105 early registrations, plus a few late-comers.

Mrs. Fred Herrin won three prizes; Mrs. K. L. Prewitt took two in the competition.

Other winners were Mrs. H. N. Benninghoff, Mrs. J. A. Whitten, Mrs. J. R. Webb, Mrs. L. R. Bailey, D. G. Watson, E. W. Arrington, Mrs. L. E. Stokes, Mrs. G. D. Ray, Alise M. Joyce, Mrs. Earl Smith, Mrs. Ray Powell, Mrs. H. Rector and J. H. Worthington.

The next party is a similar game night set for February 10, at the same place. You'uns come.

Recreation



Monday, December 4

BOWLING: C League, 5:45 p.m., Ark Lanes.

TABLE TENNIS: 7 p.m., Oak Ridge Wildcat's Den.

PHYSICAL FITNESS: (For Women) 7:30 p.m., Oak Ridge High School Girl's Gym.

BASKETBALL: Beginning 6:30 p.m., Oak Ridge High School Gym. Eagles vs. TK's; Radioisotopes vs. Bombers; and Bat Boys vs. Sharp Shots.

Tuesday, December 5

PHYSICAL FITNESS: 7:30 p.m., Oak Ridge High School Gym.

Wednesday, December 6

TURKEYSHOOT: Oak Ridge Sportsman's Association, 6:30 p.m.

BOWLING: Mixed League, 8 p.m., Ark Lanes.

BASKETBALL: Beginning 6:30 p.m., Oak Ridge High School. Chargers vs. Combustion; Atoms vs. Health Physics; and K-25 Falcons vs. TK's.

Thursday, December 7

BOWLING: Classic League, 5:45 p.m., Ark Lanes.

BADMINTON: Informal Play . . . Employees and Spouses, 7:30 p.m., Jefferson Junior High School Gym.

VOLLEYBALL: Beginning 6:30 p.m., Oak Ridge High School Gym. Court A: Naughts vs. K-25 Hawks; Charley Browns vs. Dirty Half-Dozen; Old Men vs. Mountaineers. Court B: Set Ups vs. Ecobums; K-25 Gashouse Gang vs. Neophytes; Mix Ups vs. Beavers.

Sunday, December 10

SKEET TOURNAMENT: 1 p.m., Oak Ridge Sportsman's Association range.

Glass Frames Can Prove A Hazard

Watch those plastic frames for glasses. They could be flammable! According to a letter in the May 29, Journal of American Medical Association, Ben H. Jenkins, M.D. writes:

"Recently, while I was attempting to place a new lens in an Italian frame held over an infrared lamp, the frame exploded and burned exactly as if gasoline had been poured on it. Since then I have run tests on frames imported from Germany, Italy, Mexico, and France and have found that the overwhelming majority of these frames are made with a nitrate plastic which is highly inflammable. This is a potentially dangerous situation for people who wear glasses and particularly those who smoke. A misplaced lighter flame or cigarette could set the frames on fire.

"Manufacture of frames of nitrate plastic was discontinued more than 10 years ago in this country, for the very reason that it was potentially quite dangerous. During the past 10 years, the only plastic frames manufactured in this country have been of the acetate plastic variety, and provide no physical risks. Since the American producers of plastic glass frames have adopted such a policy, it hardly seems right that the foreign countries are allowed to export a potential fire hazard to this country. I believe that it is impossible to tell a nitrate plastic frame from an acetate plastic frame, and the only way to eliminate this condition would be to prohibit the importation of any frames made from a nitrate plastic."

Carry out your security assignment.



THE HILIFERS ARE NOT VERY HIGH in standings in the C League, which bowls Mondays at 5:45. They stick in there, however. In the front row are Captain F. K. Clabough, and Frank Adams. In the rear are Grady Norton, E. L. Croley and P. W. Bullard.

Basketball League Fires Opening Gun

The Y-12 Basketball League fired opening guns last week as six of the teams met Monday, November 20. The holiday cut the latter section out of play.

Two Y-12 teams opened the season as the Eagle trounced easily over the Sharp Shots. Bill Kirksey led the winners, top scoring with 14 points. Red East tallied 12. For the losers it was Dan Ramey, 11; Ed Bailiff, 10.

The ORNL Health Physics team flattened the Y-12 Bat Boys 57 to 14 . . . Jim Treadwell leading the scoring with 15 through the basket.

Y-12's Chargers took charge of the Radioisotopes 35 to 20 in Monday's final game.

Ray Leffler led the winning squad, scoring 14 points.

League standings follow:

Team	W	L
Eagles, Y-12	1	0
Health Physics, ORNL	1	0
Chargers, Y-12	1	0
Sharp Shots, Y-12	0	1
Bat Boys, Y-12	0	1
Radioisotopes, ORNL	0	1
Atoms, Y-12	0	1
Combustion, ORNL	0	1
TK's Y-12	0	1
Bombers, Y-12-ORNL	0	1
K-25 Falcons	0	1

'Rocket From Calabuch' Is Next Foreign Film

"The Rocket from Calabuch" will be shown at 7 and 9 p.m. Sunday, December 3, at Jefferson Junior High School. In Italian with English subtitles, the movie is part of the 9th Annual Foreign Film Series sponsored by the American Association of University Women. Coffee and cookies will be served between performances.

The comedy stars Edmund Gwenn in a science-fiction yarn of an atomic scientist who tries to escape the results of his experimental work by creating a Shangri-La on an island in the Mediterranean.

Single admission tickets at 75¢ will be available at the door before each performance Sunday.

Fireballs Keep Slim C Alley Lead

The Fireballs keep their lead in the C Bowling race, after sharing two points with the King Pins. The nearest contenders the Rounders also shared two with the Invalids.

Taking four it was the Badgers over the Rodders . . . and the Rollmasters rolled past the Royal Flush for three. The Sunflowers took three from the HiLifers.

The Big Five and Parbustlers also shared two.

W. R. McGill, Rounders, scored a bull's-eye on individual scores . . . taking all highs. His singles of 245 scratch, 274 handicap was high . . . and his series of 598, 685 were up there.

The Big Five were best in scratch counting, singles of 916, series of 2562. The Invalids took handicap singles with a high of 1068 . . . and the Rounders were tops in handicap series with 2959.

League standings follow:

Team	W	L
Fireballs	28	16
Rounders	26	18
Badgers	25	19
Rollmasters	24	20
Sunflowers	24	20
Big Five	23	21
King Pins	23	21
Royal Flush	22	22
Parbustlers	19	25
Invalids	18	26
Rodders	17	27
HiLifers	15	29



Ride wanted, or will join car pool, from Powell, to Central or West Portal, straight day. L. R. Shular, plant phone 3-5086, home phone Powell 947-6449.

Car pool member wanted from Norwood Area, Knoxville, to North or Central Portal, straight day. E. C. Keith, plant phone 3-5606, home phone Knoxville 689-2229.

Security compliance assures the effectiveness of production.



"You're taking this 'off at the stroke of five' business a little too seriously, aren't you, Miss Cassidy?"

November Retirements Put Crimp In Loudon Car Pool

There's a car pool from Lenoir City that's going to take a beating with November's retirements. Two Y-12ers, who have been riding in the same car pool for years, retire tomorrow, Thursday, November 30. Lamar M. Anthony, Buildings, Grounds and Maintenance Shops; and Robert R. Duff, Arc Melting, join the ranks of retired Y-12ers.

A native of Round Mountain, Alabama, Lamar M. Anthony came here August 14, 1950, after working for the Tennessee Valley Authority, J. A. Jones, the Roane-Anderson County and the Oak Ridge Schools system. He had farmed from 1919 until 1934.

Anthony now lives at 309 C. Street, Lenoir City. Mrs. Anthony is the former Ada Lee Stepps, and the couple has two children . . . Wayne L. Anthony, Greenville; and Mary Duff, Lenoir City.

Anthony has no definite plans for his retirement.

With only four days separating them in age, Robert R. Duff joins Anthony in retiring to Lenoir City.

Duff, a native of Barbourville, Kentucky, came to Y-12 the second time in 1950. He had worked here back in the early days.

He also worked with the State Highway Department, Pineville, Kentucky; the E, J and E Railroad Company, Hobart, Indiana; Carnegie-Illinois Steel, Gary; the Resettlement Administration, and the WPA in Kentucky. After working with Tennessee Eastman Corporation, he worked with J. A. Jones, the International Harvester Corporation, Louisville; the A. A. Fisher Company, Pineville and Maxon Construction Company.

Mrs. Duff is the former Ethel Forence Murray . . . and they have one daughter Margaret Young, Knoxville. They also have a granddaughter, only six months old.

The Duffs live at 501 A Street, Lenoir City.

Both Loudon County retirees take with them the best wishes of co-workers, for a long and happy retirement.

Make security your everyday companion.



Lamar M. Anthony



Robert R. Duff

LOCK UP FOR SECURITY

Security warns that properly safeguarded classified papers must be locked up or otherwise secured before you leave your desk.

Bound Brook Sets Major Expansion

A major expansion at Union Carbide's vulcanizable polyethylene facilities in Bound Brook, New Jersey, was announced by Glenn L. Pitzer, president of the Plastic Products Division of Union Carbide Corporation. Reflecting Union Carbide's confidence in a growing demand for vulcanizable polyethylene, this expansion alone is planned to satisfy the industry growth for the next five years. It permits the maximum economics inherent in large scale operations.

Vulcanizable polyethylene is used principally as insulation in power cables. In the few years since it was introduced, it has become established as a high-performance insulation material. The vulcanization process effects a cross-linking of the polyethylene, which from then on has no melting point. This effectively overcomes one of the drawbacks of natural polyethylene in high-temperature service. Also, its high dielectric strength makes it economical to use. Further, excellent moisture resistance makes it suitable for duct and underground cable.

Union Carbide's vulcanizable polyethylene facilities in Bound Brook are part of an important plastics-producing complex at that location. Products produced there include vinyl film and sheeting, phenolic resins and molding materials, ABS (acrylonitrile-butadiene-styrene), and polystyrene. In other parts of New Jersey, there are plastics production units at Morristown, Newark, and Wayne. Additional plastics units are located in Anaheim and Torrance, California; Ottawa and Streamwood, Illinois; Seadrift and Texas City, Texas; South Charleston, West Virginia; Whiting, Indiana; Cartersville, Georgia, and Marietta, Ohio. In 1966, plastics accounted for 17 per cent of Union Carbide's \$2.2 billion sales.

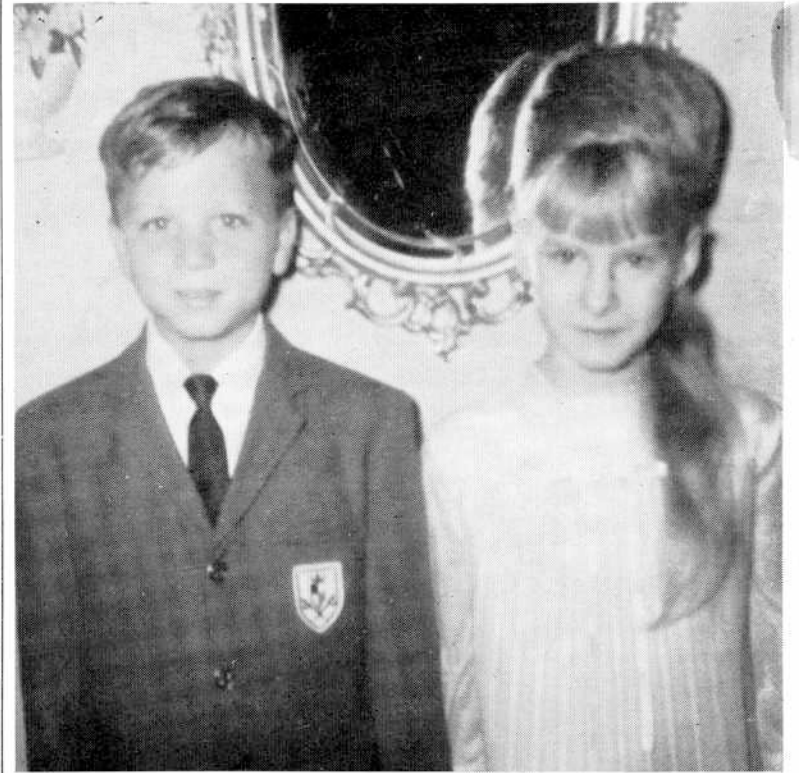
Think before you talk.



UNION CARBIDE CORPORATION
NUCLEAR DIVISION
P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

(RETURN REQUESTED)

BULK RATE
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RANDY BUTLER AND SHERIL CURTIS were crowned Prince and Princess as Dyllis Elementary School recently. Both children are in the fourth grade at Dyllis. Randy is the son of Robert Butler, Maintenance; and Sheril is the daughter of C. H. Curtis, Tool Engineering.

Traffic Tips To Help Motorist Help Himself On Busy Highways

The Slowpoke on the expressway is just as dangerous as the speeder, according to the National Safety Council. If traffic streams past you or you are leading a slow parade in your lane, speed up or get off the expressway. You are a hazard when you block traffic.

Seat belts do save lives. Studies of actual auto crashes by investigators at Cornell University

prove it. It is estimated that at least 5,000 lives a year would be saved if every motorist used a seat belt every time he gets into a car.

Plan every trip so you won't have to force yourself or your car. Take time to stop, stretch, rest, have a snack. You'll be more alert, more relaxed, and more comfortable.

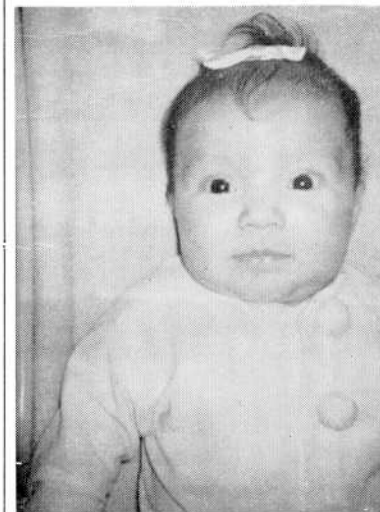
When passing another car, remember that it is moving too. Don't pull back in front of it until you can see its headlights in your rear-view mirror.

At least five cars besides your own concern you while driving, says the NSC. They are the one ahead, the one behind, the one approaching in the opposite lane, the one ready to enter from a side street, and the one parked at the curb. Be prepared for any of them to do anything without warning.

Motorists usually signal their intention to turn. But many forget they should also signal their intentions to change lanes. Every turn should be advertised in advance. When changing lanes, first make sure no car is cruising along in your blind spot.

IDEAS AND STARS

Ideas are like stars; you can never touch them with your hands, but like the seafaring man on the trackless ocean you take them as your guide and following them reach your destiny.



TONYA LEIGH Johnson, born August 26, is the daughter of Mr. and Mrs. Thomas M. Johnson, Route 1, Clinton Highway, Knoxville. Her proud grandfather J. M. Johnson is in Y-12's Process Maintenance Department.

Application For Tickets

TO

Christmas Parties

FOR CHILDREN OF CARBIDE EMPLOYEES

(Ages Two-10 Only)

THURSDAY, DECEMBER 21

Employee's Name _____ Badge No. _____

Home Address _____

(PLEASE PRINT — STREET ADDRESS OR R.F.D., CITY, AND ZIP CODE)

NUMBER OF TICKETS (Children) _____

NUMBER OF TICKETS (Adult) _____

— CHECK TIME PREFERRED —

Thursday, December 21 9 A.M. _____ 11 A.M. _____

Only 1 P.M. _____ 3 P.M. _____ 5 P.M. _____

Please check first, second and third choice (write in space "1", "2" or "3") as only a limited number of tickets will be issued for each party. Preference will be given early applicants and if tickets for first choice are exhausted, tickets for second choice will be issued.

Return this form, properly and completely filled in, immediately to the Y-12 Recreation Office, Room 156, Bldg. 9704-2, NOT LATER than December 15. The required number of tickets will then be mailed to parents at their HOME ADDRESS